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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,882	10/624,882 07/21/2003		Milton B. Shields	25006.0016U1	6789
23859	7590	10/04/2005		EXAMINER	
NEEDLE &	k ROSEI	NBERG, P.C.	DEAK, LESLIE R		
SUITE 1000 999 PEACH		REET	ART UNIT	PAPER NUMBER	
ATLANTA,			3761		

DATE MAILED: 10/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)					
	10/624,882	SHIELDS, MILTON B.					
Office Action Summary	Examiner	Art Unit					
	Leslie R. Deak	3761					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 21 Ju	ly 200 <u>3</u> .						
,	action is non-final.						
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-50</u> is/are pending in the application.		•					
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-50</u> is/are rejected.							
7) Claim(s) is/are objected to.	·						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
	· •	,					
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>21 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
		. (d) or (f)					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) OI (I).					
a) All b) Some * c) None of:	s have been received						
1. Certified copies of the priority documents		on No					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
application from the International Bureau		a mana mananan anaga					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(a)							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/03,3/04, 12/04,	5) Notice of Informal P 6) Other:	ratent Application (PTO-152)					
i apei ino(s)/iniaii bate 1000,004, 1204.							

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-13, 19-27, 29, and 44-50 are rejected under 35 U.S.C. 102(b) as being anticipated by US 4,521,210 to Wong. Wong discloses an eye implant for relieving glaucoma that discloses substantially all the claimed limitations. Wong's implant comprises an elongate body with a forward and back end, sharp leading edge 50, a fusiform cross-sectional shape (see FIG 3B), a shoulder surface 44 with an area of increased width, and channels, slits, or conduits that run through the device with openings at perforations 70 to channel fluid therethrough. (Since the openings are located on the upper surface of the implant, they are arranged at an acute angle from the upper surface.) The device has substantially coplanar upper and lower surfaces, and is made of a semi-rigid biocompatible material that may not be porous and curved to conform to the shape of the eye (see FIG 3B), and further comprises a grooved surface (see column 4, lines 15-55, column 7, lines 50-51, FIGS 3C, 15A). The implant further comprises notches 52, 54 and extends from the anterior chamber to the suprachoroidal space (see column 5, lines 35-55). Wong's device further comprises both planar and grooved surfaces on the upper and lower portions of the implant that are suitable for grasping by a

surgical tool for insertion into the eye. A recitation with respect to the manner in which a claimed apparatus or component is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations.

3. With regard to applicant's method, Wong discloses the step of making an incision through the sclera, providing the claimed conduit, inserting it into the anterior chamber of the eye (which requires grasping of some sort, since the implant is not capable of self-implantation), maneuvering the back end of the implant into the suprachoroidal space while positioning the shoulder or cross-arm into the correct location, and suturing the incision closed (see column 5, lines 10-60).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 15-16, 30, 31, 34-41, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 4,521,210 to Wong in view of US 5,599,330 to Rainin. Wong discloses the device as claimed with the exception of a wicking member to carry fluid through the implant. Rainin discloses a surgical wicking member, disclosing that a tube may comprise a wicking member via capillary

action in order to remove fluid from a large area for aspiration. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the conduits provided in the Wong implant with capillary tubes, as taught by Rainin, in order to remove fluid from a large surface area for aspiration, as taught by Rainin.

- 6. Claims 14, 18, and 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 4,521,210 to Wong in view of 5,476,445 to Baerveldt et al. Wong discloses the device as claimed with the exception of suture bores and a tube extending from the implant. Baerveldt discloses an ocular implant for glaucoma relief with a generally planar surface adapted to the curvature of the eye, with a conduit that may or may not extend the length of the implant (see FIGS 5, 9a, 9b) connected to a drainage tube 41 that spans the eye to drain excess fluid to the anterior chamber of the eye. The Baerveldt implant further comprises suture bores 74-77 that prevent the migration of the device into the eye socket tissue. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to provide multiple suture points, including suture bores, to the Wong device to prevent the migration of the device to the eye socket, as taught by Baerveldt. Further, it would have been obvious to one having ordinary skill in the art at the time of invention to add a drainage tube disclosed by Baerveldt to the Wong device in order to span the eye and direct excess fluid to a diverse portion of the eye, as taught by Baerveldt.
- 7. Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 4,521,210 to Wong in view of US 5,599,330 to Rainin further in view of

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Art Unit: 3761

5,476,445 to Baerveldt et al. It would have been obvious to one having ordinary skill in the art at the time of the invention to provide the implant with the wicking members as disclosed by Wong and Rainin with suture bores as disclosed by Baerveldt in order to provide multiple suture points, including suture bores, to the Wong device to prevent the migration of the device to the eye socket, as taught by Baerveldt.

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Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - a. US 6,142,969 Nigam
 - i. Sutureless implantable glaucoma treatment device

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie R. Deak whose telephone number is 571-272-4943. The examiner can normally be reached on M-F 7:30-5:00, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tanya Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

26 September 2005